

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00001FT**  
Revision No:  
**1**

**This is to certify:**

That

**Neway Industrial (Suzhou) Co., Ltd.**  
**No. 166, Kunlunshan Road, New District, SUZHOU, 215163 JIANGSU,**  
**China**

is an approved manufacturer of  
**Steel Castings**

in accordance with  
**DNV GL rules for classification – Ships**

and the following particulars:

<b>Application area</b>	<b>Castings for boilers, pressure vessels and piping systems, Stainless steel castings</b>
<b>Steel type</b>	<b>Carbon and carbon-manganese, Alloy, Austenitic stainless, Ferritic-austenitic (Duplex) stainless,</b>
<b>Casting method</b>	<b>Sand casting,</b>
<b>Max. weight</b>	<b>1 000 kg</b>
<b>Max. wall thickness</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>
<b>Additional approval conditions</b>	<b>See page 2</b>

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2020-06-16**

for **DNV GL**

This Certificate is valid until **2023-06-30**.

DNV GL local station: **Shanghai**

Approval Engineer: **Andreas Koch**

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**Thorsten Lohmann**  
**Head of Section**

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Job Id: **263.11-007682-2**  
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## Particulars of the approval

### Castings for boilers, pressure vessels and piping systems

Steel type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
C and C-Mn	VL C450H, VL C490H	SC	1 000	120	N, NT, QT
Alloy	VL C0.5Mo, VL C1Cr0.5Mo, VL C2.25Cr1Mo	SC	1 000	120	N, NT, QT

### Stainless steel castings

Steel type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Austenitic	GX 2 CrNi 18 10 (304L) GX 5 CrNi 19 9 (304) GX 6 CrNiNb 19 10 (347) GX 2 CrNiMo 19 11 2 (316L) GX 5 CrNiMo 19 11 2 (316) GX 5 CrNiMo 19 11 3 (317)	SC	1 000	120	SHT
Ferritic-austenitic	GX 2 CrNiMoN 22 5 3	SC	1 000	120	SHT

### Ferritic steel castings for low temperature service

Steel type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
C and C-Mn	C450L, C490L	SC	1 000	120	N, NT, QT

Remarks:

- 1) SC: Sand Casting
- 2) SHT: Solution Heat Treated (Solution Annealing)  
N: Normalized  
QT: Quenched and tempered  
NT: Normalized and tempered
- 3) Incl. equivalent grades in acc. to other standards

Special conditions: Including low temperature service for austenitic stainless steel